STN-Structure Search 11/7/05

10/716,175

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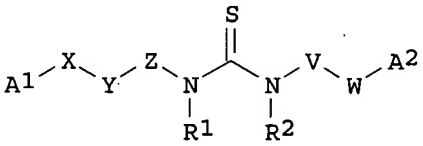
Inventors

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:453172 CAPLUS
DOCUMENT NUMBER: 141:23305
TITLE: Preparation of substituted aryl thioureas as inhibitors of viral replication
INVENTOR(S): Chen, Dawei; Deshpande, Milind; Thurkauf, Andrew; Phadke, Avinash; Wang, Xiangzhu; Shen, Yiping; Liu, Cuixian; Quinn, Jesse; Ohkanda, Junko; Li, Shouming
PATENT ASSIGNEE(S): Achillion Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 218 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046095	A1	20040603	WO 2003-US36809	20031118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2506415	AA	20040603	CA 2003-2506415	20031118
US 2004138205	A1	20040715	US 2003-716175	20031118
EP 1562895	A1	20050817	EP 2003-786803	20031118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016397	A	20050927	BR 2003-16397	20031118
PRIORITY APPLN. INFO.:			US 2002-427634P P	20021119
			WO 2003-US36809 W	20031118

OTHER SOURCE(S): MARPAT 141:23305
GI



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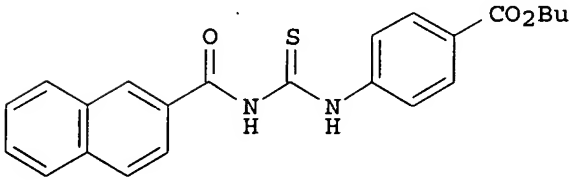


II

AB The title compds. [I; A1 = (un)substituted aryl, 5-6 membered heteroaryl; etc.; A2 = (un)substituted Ph, 2-pyridyl, 5-pyrimidinyl, etc.; X, W = O,

S, NR, absent (wherein R = H, alkyl, arylalkyl); V = alkyl, alkenyl, cycloalkyl, absent; Y = alkyl, cycloalkylalkyl, alkenyl, etc.; when V is absent, W is absent; Z = carbonyl, thiocarbonyl, imino, alkylimino; R1, R2 = substituted alkyl, alkenyl, alkynyl; or R1 and R2 are joined to form (un)substituted 5-7 membered saturated or mono-unsatd. ring containing one addnl. heteroatom chosen from N, S and O] which possess potent antiviral activity, were prepared and formulated. Thus, treating 2-naphthoyl chloride with ammonium thiocyanate in acetone followed by addition of Bu 4-aminobenzoate afforded II which was found to inhibit replication of the HCV replicon with EC50 of < 30 μM. The invention particularly provides compds. I that are potent and/ or selective inhibitors of Hepatitis C virus replication. The invention also provides pharmaceutical compns. containing one or more compound I, or a salt, solvate, or acylated prodrug of such compds., and one or more pharmaceutically acceptable carriers, excipients, or diluents. The invention further comprises methods of treating patients suffering from certain infectious diseases by administering to such patients an amount of a compound I effective to reduce signs or symptoms of the disease or disorder. These infectious diseases include viral infections, particularly HCV infections. The invention is particularly includes methods of treating human patients suffering from an infectious disease, but also encompasses methods of treating other animals, including livestock and domesticated companion animals, suffering from an infectious disease. Methods of treatment include administering a compound I as a single active agent or administering a compound I in combination with on or more other therapeutic agent.

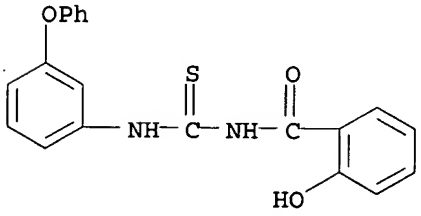
IT **698978-42-6P 698980-15-3P 698980-17-5P**
698983-63-0P 698983-76-5P 698983-85-6P
698984-02-0P 698984-28-0P 698984-35-9P
698984-42-8P 698984-46-2P 698984-53-1P
698984-58-6P 698988-73-7P 698988-81-7P
698990-06-6P 698990-35-1P 698990-59-9P
698990-74-8P 698990-79-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted aryl thioureas as inhibitors of viral replication)

RN 698978-42-6 CAPLUS

CN Benzamide, 2-hydroxy-N-[[(3-phenoxyphenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



RN 698980-15-3 CAPLUS

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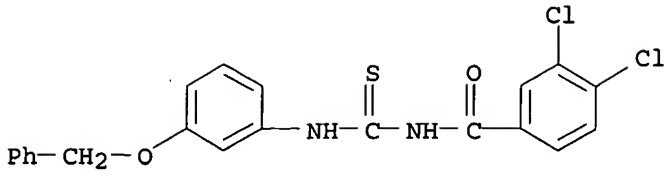

RN 698980-17-5 CAPLUS
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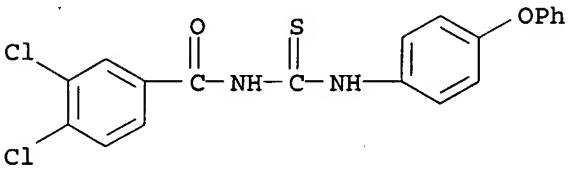

RN 698983-63-0 CAPLUS
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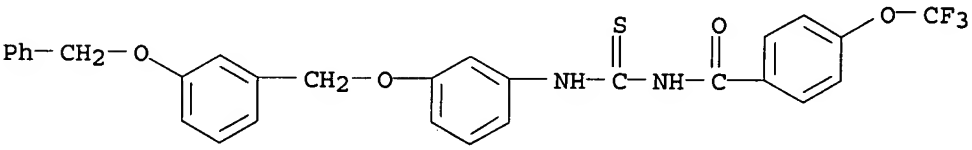

RN 698983-76-5 CAPLUS
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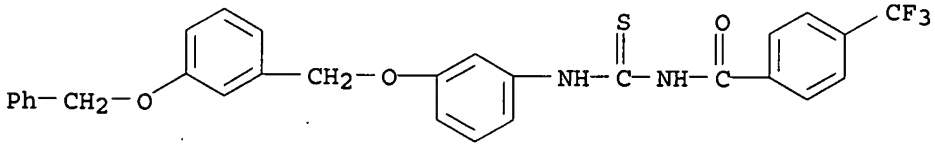

RN 698983-85-6 CAPLUS
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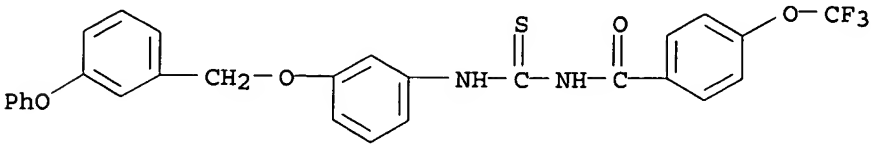
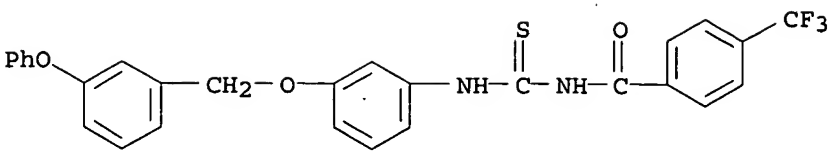


RN 698984-02-0 CAPLUS
CN Benzamide, N-[[[3-[(3-phenoxyphenyl)methoxy]phenyl]amino]thioxomethyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 698984-28-0 CAPLUS
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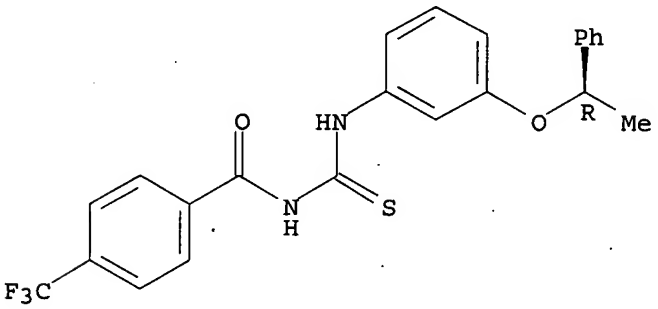
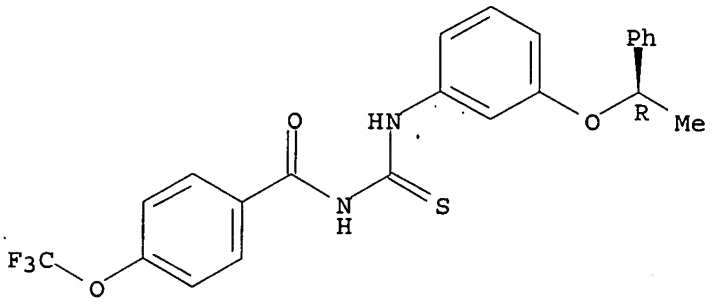
Absolute stereochemistry.



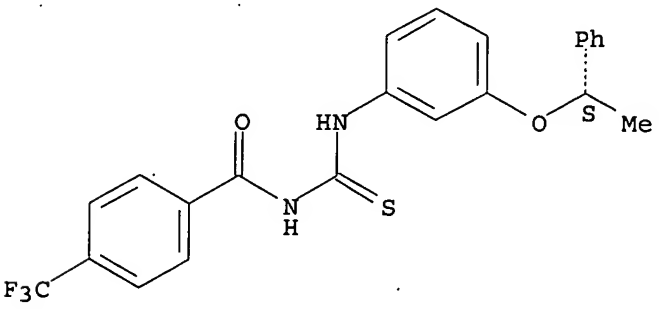
RN 698984-35-9 CAPLUS
CN Benzamide, N-[[[3-[(1R)-1-phenylethoxy]phenyl]amino]thioxomethyl]-4-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



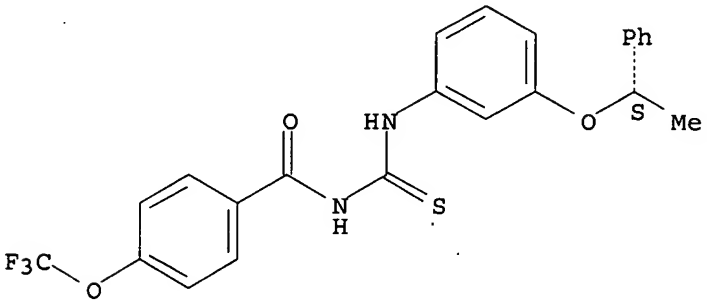
RN 698984-42-8 CAPLUS
CN Benzamide, N-[[[3-[(1S)-1-phenylethoxy]phenyl]amino]thioxomethyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

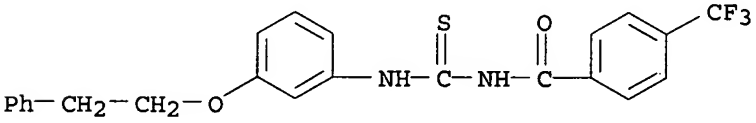


RN 698984-46-2 CAPLUS
CN Benzamide, N-[[[3-[(1S)-1-phenylethoxy]phenyl]amino]thioxomethyl]-4-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

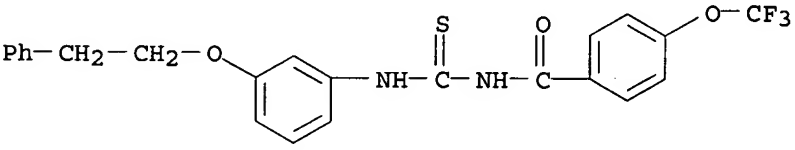
Absolute stereochemistry.



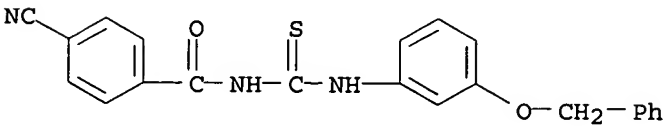
RN 698984-53-1 CAPLUS
CN Benzamide, N-[[[3-(2-phenylethoxy)phenyl]amino]thioxomethyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



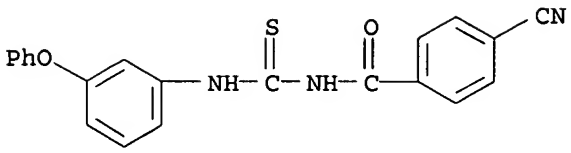
RN 698984-58-6 CAPLUS
CN Benzamide, N-[[[3-(2-phenylethoxy)phenyl]amino]thioxomethyl]-4-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



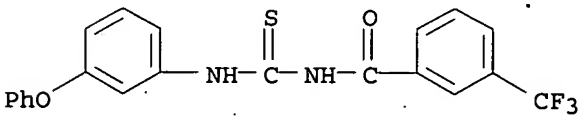
RN 698988-73-7 CAPLUS
CN Benzamide, 4-cyano-N-[[[3-(phenylmethoxy)phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



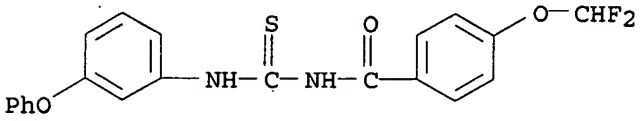
RN 698988-81-7 CAPLUS
CN Benzamide, 4-cyano-N-[[(3-phenoxyphenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



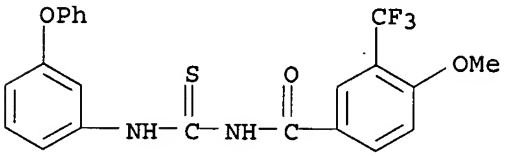
RN 698990-06-6 CAPLUS
CN Benzamide, N-[[(3-phenoxyphenyl)amino]thioxomethyl]-3-(trifluoromethyl)-(9CI) (CA INDEX NAME)



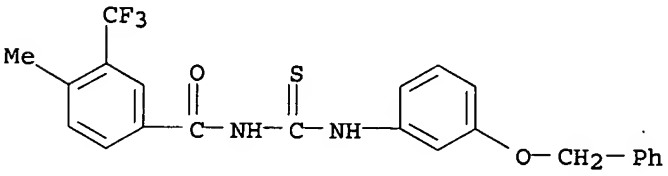
RN 698990-35-1 CAPLUS
CN Benzamide, 4-(difluoromethoxy)-N-[[(3-phenoxyphenyl)amino]thioxomethyl]-(9CI) (CA INDEX NAME)



RN 698990-59-9 CAPLUS
CN Benzamide, 4-methoxy-N-[[(3-phenoxyphenyl)amino]thioxomethyl]-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 698990-74-8 CAPLUS
CN Benzamide, 4-methyl-N-[[[3-(phenylmethoxy)phenyl]amino]thioxomethyl]-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 698990-79-3 CAPLUS
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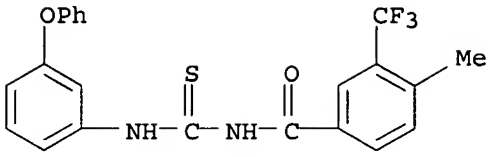

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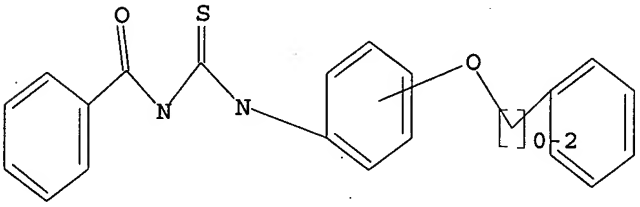
L1 STRUCTURE UPLOADED
L2 229 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:32:06 ON 07 NOV 2005
L3 1 S L2/THU

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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